3 OCT 1946

BOLETIN

DE

ENTOMOLOGIA VENEZOLANA

PATROCINADO POR EL MINISTERIO DE SANIDAD Y ASISTENCIA SOCIAL
Y POR EL MINISTERIO DE AGRICULTURA Y CRIA

Vol. V

18

30 de Junio de 1946

_

No. 2

Resumen:

Páginas

Oscar Monte. — Duas Novas Especies de Tingitideos da Bolivia.....

27-28

Henry Townes. — The Generic Position of the Neotropic Ichneumonidae (Hymenoptera) with types in the Philadelphia and Quebec Museums, described by Cresson, Hooker, Norton, Provancher and Viereck

29_63

CARACAS Lit. y Tip. del Comercio 1946

Comité de Redacción:

PABLO J. ANDUZE,

Dept. de Entomología. — Instituto de Higiene, Ministerio de Sanidad y Asistencia Social, Caracas, Venezuela, S. A.

RENE LICHY.

5 Parque Sanabria, Caracas, Venezuela.

ENRIQUE VOGELSANG.

Servicio de Haras y Remonta, Ejército Nacional, Maracay.

CHARLES H. BALLOU.

Dept. de Entomología, Escuela de Zootécnica, M. A. C., Caracas, Venezuela.

FELIX PIFANO.

Sección de Investigaciones, Instituto de Higiene, Caracas, Venezuela.

Editor para 1946: RENE LICHY.

AVISO A LOS COLABORADORES Y CONTRIBUYENTES

Los trabajos por publicar deben ser enviados escritos a máquina con doble espacio, con sus ilustraciones adecuadas para la reproducción.

Se aceptarán solamente trabajos completos, originales y que no hayan sido publicados.

Los autores recibirán 50 ejemplares separados gratis y habrán de pagar los adicionales que requieran al precio de costo.

Es entendido previamente que cada autor será responsable por su trabajo y que el Comité de Redacción se reserva el derecho de publicación sin que haya obligación de dar explicaciones.

Hágase referencia a este boletín con la siguiente abreviatura: Bol. Ent. Venez. Caracas, Venezuela.

A partir de 1943 la subscripción anual de este boletín será de Bs. 15,00 o su equivalente en U. S. cy.

DUAS NOVAS ESPECIES DE TINGITIDEOS DA BOLIVIA

Oscar Monte

Instituto Biológico, S. Paulo, Brasil.

Por gentilesa do Dr. Raúl P. Alcalá, La Paz, Bolivia, recebemos um pequeno lote de tingitideos da Bolivia, que constava das duas novas espécies que neste trabalho são descritas.

Agradecimentos lhe são devidos pela remessa deste material. Os tipos estão guardados na coleção do autor.

Corythucha boliviana, n. sp.

Colorido pardo-sujo, sem máculas, salvo uma ou outra nervura mais escura. Antenas curtas, amareladas, ornadas com pêlos longos. Rostro muito curto, ferrugineo, alcançando a metade do sulco rostral. Parte inferior, escura. Patas ferrugineas.

Pronoto amarelo-claro, pouco elevado, brilhante, levemente pontuado; porção trimgular muito curta e mais clara do que o disco; carenas latera de estas, com um ou dois espinhos, formadas com duas celulas; carena mediana bem mais baixa e um pouco menor do que o comprimento da vesicula, e não arqueada. Vesicula mais ou menos desenvolvida, bem mais longa do que alta, afilando-se para frente, achatada na parte de cima, com as aréolas discais levemente enfuscadas. Paranotos muito arqueados, ondulados, espinhosos, sem máculas.

Élitros claros, com a elevação da discoidal pouco alta, a declividade interna desta elevação, pouca túmida, e manchada de escuro; area costal trisseriada, tendo na base e ápice, poucas nervuras escurecidas, porém, as aréolas transparentes.

Vesicula, carenas, margens dos élitros e paranotos armados com espinhos claros e de extremidades pretas.

Comprimento 3.06 mm.; largura 1.73 mm.

Holótipo (macho) e alótipo (fêmea) e 10 paratipos, dezembro 1945, La Paz, Bolivia, colhidos pelo Dr. R. P. Alcalá.

Esta espécie é proxima de *C. nocentis* D. & H., porem, maior e sem as manchas transversais perto da base e ápice, e com paranotos imaculados.

Corythucha translucida, n. sp.

Transparente e com poucas máculas. Antenas amarelo-palidas, com numerosos pêlos. Vesicula grande, globosa atraz, pouco estrangulada na frente e manchada de escuro na parte superior, quase duas vezes tão longa quanto alta, e um pouco mais longa do que a carena mediana. Esta carena bem mais baixa do que a vesicula e em forte declive para a porcão triangular, pouco arqueada, tendo a primeira célula muito larga, o dobro das subsequentes. As carenas laterais curtas, baixas e concavas, com duas areolas e dois espinhos.

Pronoto amarelado na disco e esbranquiçado na porção triangular, tendo leve pontuação. Paranotos largos, armados com numerosos espinhos, na margem posterior com dupla carreira, tendo quatro pequenos pontos negro-foscos, dois em cada paranoto.

Élitros transparentes, com a elevação túmida pouco desenvolvida e com algumas aréolas escurecidas; area costal largamente trisseriada, tendo na base pequena mancha escura, e no ápice poucas nervuras escuras.

Rostro e patas, esbranquiçados. Parte inferior do corpo, escura.

Holótipo (macho) e alótipo (fêmea) e um parátipo, dezembro de 1945, La Paz, Bolivia, colhidos pelo Dr. R. P. Alcalá.

Comprimento 3.04 mm.; largura 1.73 mm.

Semelhante a *C.acculta* D. & P., porem com carenas laterais menores e mais baixas; elevação bulbosa diferentemente formada; vesícula maior; carena mediana muito mais baixa do que a vesícula.

TWO NEW SPECIES OF TINGITIDS FROM BOLIVIA.

Abstract.

The present paper contains the description of two new species of lace-bugs collected in La Paz, Bolivia, by Dr. R. P. Alcalá.

THE GENERIC POSITION OF THE NEOTROPIC ICHNEU-MONIDAE (HYMENOPTERA) WITH TYPES IN THE PHILADELPHIA AND QUEBEC MUSEUMS, DESCRIBED BY CRESSON, HOOKER, NORTON, PROVANCHER, AND VIERECK

Henry Townes

Takoma Park, Maryland, U.S.A.

From 1865 to 1874, E. T. Cresson, Senior described several hundred Ichneumonidae from Mexico and the West Indies. Cresson's ideas of genera in this family were as advanced as those of any of his contemporaries working on the Neotropic fauna, but inadequate by modern standards. In order to increase the usefulness of his pioneering efforts, an attempt is made in this paper to place as many of his species as possible in their proper genera in the light of present knowledge. Most of Cresson's types of Neotropic Ichneumonidae are in the collection of the American Entomological Society, Academy of Natural Sciences, Philadelphia, Pennsylvania, U. S. A. They are in good condition and well cared for. The rest of his types of Neotropic ichneumonids (thirty-two) are in the Gundlach Collection of Hymenoptera, Instituto de Segunda Enseñanza de La Habana, Havana, Cuba. They are in hermetically sealed glass-top boxes and are presumably in good condition. I have never been able to see the Gundlach Collection so for the present shall deal only with the types in the Philadelphia museum. In addition to those species described by Cresson, there are in the same museum a few types of Neotropic species described by Hooker, Norton, and Viereck. The generic positions of these are also given in this paper.

In 1941, I was able to study the ichneumonid types of Abbé Provancher in the Museum of the Province of Quebec, Quebec, Canada. Included were the types of the three Neotropic species described by him and these are given generic placements here.

The various types are listed below, alphabetically according to specific names under each author, the authors in alphabetic order. First is given the specific name, then the original generic name, date of publication, and page number. Following this data is what I consider to be the proper generic and specific name for the species. When the species has not before been placed in the genus given, this is indicated by "n. comb." (= new combination). When it is synonymized with another specific name for the first time, the indication "n. syn." (= new synonymy) is used.

The generic concepts and nomenclature are the same as those used in my "Catalogue and Reclassification of the Nearctic Ichneumonidae" (1944 and 1945, Mem. Amer. Ent Soc. no. 11, 925 pp.) with certain exceptions discussed in the section on genera at the end of this paper. In the Ichneumonidae are many undescribed Neotropic genera, some represented by Cresson species. Those that seem most distinctive and most easily characterized from the material available are named and described after the lists of types. Other undescribed genera are left unnamed and the Cresson species involved are referred only to their proper tribe or stated to be near some related genus. The discussion of generic limits, descriptions of new genera, and bibliography follow the lists of species.

CRESSON

The types are in the Philadelphia Museum.

abactus (Ichneumon). 1873, p. 127 = Notacma abacta Cr., n. comb.

abactus (Mesostenus). 1873, p. 160 = Toechorychus abactus Cr., n. comb.

abaculus (Ichneumon). 1873, p. 124 = Pseudamblyteles abaculus Cr., n. comb.

- abdominalis (Mesostenus). 1873, p. 165 = Christolia abdominalis Cr.
- abitus (Ichneumon). 1873, p. 125 = Pseudamblyteles abitus Cr., n. comb.
- abjectus (Ichneumon). 1873, p. 122 = Ditremops abjecta Cr., n. comb.
- ablatus (Mesostenus). 1873, p. 149 = Cryptanura ablata Cr.
- ablutus (Ichneumon). 1873, p. 113 = Cratichneumon ablutus Cr., n. comb.
- abnormis (Hoplismenus). 1868 p. 26 = Amblytelini.
- absolutus (Mesostenus). 1873, p. 158 = Lymeon absolutus Cr., n. comb.
- acceptus (Mesostenus). 1873, p. 154 = Christolia accepta Cr., n. comb.
- acclivus (Hoplismenus). 1868, p. 25 = Notacma accliva Cr., n. comb.
- accolens (Mesostenus). 1873, p. 159 = Lymeon accolens Cr., n. comb.
- accuratus (Mesostenus). 1873, p. 147 Polycyrtus accuratus Cr.
- acerbus (Mesostenus). 1873, p. 144 = Polycyrtus acerbus Cr.
- aciculata (Joppa?). 1868, p. 30 = near Ortezia.
- acolhua (Cryptanura). 1873, p. 167 = Cryptini.
- actuosus (Ichneumon). 1873, p. 117 = Ditremops actuosa Cr., n. comb.
- additus (Ichneumon). 1873, p. 114 = Melanichneumon additus Cr., n. comb.
- adjicialis (Hemiteles). 1873, p. 172 = Lymeon adjicialis Cr., n. comb.
- admirabilis (Hemiteles). 1873, p. 175 = Mallochia admirabilis Cr., n. comb.
- admirandus (Mesostenus). 1873, p. 155 = Agonocryptus admirandus Cr., n. comb.
- admonitus (Mesostenus). 1873, p. 160 = Lymeon admonitus Cr., n. comb.
- admotus (Mesostenus). 1873, p. 156 = near Digonocryptus. comb.

- adultus (Hemiteles). 1873, p. 173 = Lymeon adultus Cr., n. comb.
- agnatum (Anomalon). 1874, p. 379 = Labrorychus agnatus Cr., n. comb.
- albipes (Pimpla). 1874, p. 399 = Scambus albipes Cr., n. comb. albopicta (Glypta). 1874, p. 405 = Glypta albopicta Cr.
- albovarius (Trogus?). 1865, p. 20 = Oedicephalus albovarius Cr.
- alternata (Epirhyssa). 1865, p. 40 = Epirhyssa alternata Cr.
- alternatus (Meniscus?). 1874, p. 410 = Diradops alternata Cr., n. comb.
- alvarado (Ichneumon). 1868, p. 7 = Eugyrus alvarado Cr., n. comb.
- amecus (Ichneumon). 1873, p. 123 = Pseudamblyteles amecus Cr., n. comb.
- anguina (Mesoleptus?). 1874, p. 391 = Lusius anguina Cr., n. comb.
- angulatus (Cryptus). 1873, p. 136 = Ischnus angulatus Cr., n. comb.
- animatus (Mesostenus). 1873, p. 161 = Acerastes animatus Cr., n. comb.
- annulata (Eiphosoma). 1865, p. 54 = Eiphosoma annulatum Cr.
- antennatus (Nonnus). 1874, p. 387 = Nonnus antennatus Cr.
- apicalis (Lycorina). 1874, p. 407 = Toxophoroides apicalis Cr. arctus (Mesostenus). 1873, p. 162 = Diapetimorpha arcta Cr., n. comb.
- arcuatus (Cryptus). 1873, p. 135 = near Digonocryptus.
- arcuatus (Mesostenus). 1873, p. 156 Messatoporus arcuatus Cr., n. comb.
- ardens (Joppidium). 1873, p. 139 = Joppidium ardens Cr.
- arista (Ichneumon). 1868, p. 16 = Lobaegis arista Cr., n. comb.
- arrogans (Ichneumon). 1873, p. 115 = Trogomorpha arrogans Cr., n. comb.
- atratus (Nonnus). 1874, p. 387 = Nonnus atratus Cr.

- atriceps (Campoplex). 1865, p. 42 = Campoplegidea atriceps Cr., n. comb.
- atriceps (Ephialtes). 1874, p. 394 = Calliephialtes atriceps Cr. atriceps (Mesostenus). 1873, p. 148 = Polycyrtus atriceps Cr.
- atriceps (Pimpla). 1874, p. 404 = Zonopimpla atriceps Cr., n.
- atriventris (Ophion). 1874, p. 374 = Athyreodon atriventris Cr. atrovittata (Eiphosoma). 1865, p. 52 = Eiphosoma atrovittatum Cr.
- aurifer (Campoplex). 1874, p. 383 = Campoplegidea aurifer Cr., n. comb.
- azteca (Eiphosoma). 1874, p. 381 = Eiphosoma aztecum Cr.
- azteca (Lampronota). 1874, p. 408 = Lissonotini.
- azteca (Pimpla). 1874, p. 401 = Coccygomimus aztecus Cr., n. comb.
- aztecus (Cryptus). 1873, p. 133 = Protocryptus aztecus Cr., n. comb. This is the genotype of Zamansa Viereck, 1912, which I consider a synonym of Protocryptus Schmiedeknecht, 1904 (new synonymy).
- aztecus (Ichneumon). 1868, p. 20 = Lichmeres aztecus Cr., n. comb.
- aztecus (Mesoleptus). 1874, p. 390 = near Digonocryptus.
- aztecus (Mesostenus). 1873, p. 152 Cryptanura azteca Cr., n. comb.
- bardus (Mesoleptus). 1868, p. 34 = Aptesis bardus Cr., n. comb. bella (Lampronota). 1874, p. 408 = Phytodietus bellus Cr.
- bicincta (Pimpla). 1865, p. 38 = Theronia bicincta Cr.
- bimaculatus (Hemiteles). 1873, p. 173 Mallochia bimaculata Cr., n. comb.
- blandita (Trogus). 1873, p. 132 = Macrojoppa blandita Cr.
- braconoides (Pimpla). 1874, p. 404 = Zonopimpla atriceps Cr., n. syn. P. braconoides Cr. is preoccupied by Spinola, 1851 and by Smith, 1858. It was renamed Pimpla cressoni by Cameron, 1886.
- bucephalus (Mesoleptus?). 1868, p. 36 = Atopotrophos bucephalus Cr.

- burrus (Ichneumon) 1865, p. 14 = Amblytelini.
- caeruleata (Pimpla). 1874, p. 397 Coccygomimus caeruleatus Cr., n. comb.
- caeruliventris (Exochus). 1868 p. 38 = Leurus caeruliventris Cr., n. comb.
- calcarata (Mesostenus). 1873, p. 164 = Christolia calcarata Cr.
- calcaratus (Campoplex). 1874, p. 384 Campoplegidea cressonii Dalla Torre, n. comb. Cresson's name is preoccupied by Spinola, 1851. It was renamed Campoplex cressonii by Dalla Torre, 1901.
- calidus (Mesoleptus). 1868, p. 33 = near Digonocryptus.
- celaya (Cryptus). 1873, p. 135 = Ischnus celaya Cr., n. comb.
- centralis (Hemiteles). 1873, p. 174 = Lymeon centralis Cr., n. comb.
- centrosus (Ichneumon). 1868, p. 8. = Pseudamblyteles centrosu Cr., n. comb.
- cephalotes (Ichneumon). 1873, p. 123 = Oedicephalus cephalotes Cr., n. comb.
- chalco (Ichneumon). 1868, p. 7 = Tricholabus chalco Cr., n. comb.
- chiapus (Ichneumon). 1873, p. 112 = Platylabus chiapus Cr., n. comb.
- chichimecus (Ichneumon). 1868, p 19 = Pseudamblyteles? chichimecus Cr., n. comb.
- chichimecus (Mesostenus). 1873, p. 155 Agonocryptus chichimecus Cr.
- cholula (Ichneumon). 1868, p. 5 = near Neotropichneumon.
- cincticornis (Trachynotus). 1865, p. 49 = Ophiopterus cincticornis Cr.
- citrinus (Ichneumon). 1873, p. 114 = Amblytelini
- citus (Cryptus). 1873, p. 137 = Ischnus citus Cr., n. comb.
- collaris (Mesostenus). 1873, p. 162 = Polistiphaga fulva Cr.
- communis (Mesostenus). 1873, p. 154 = Diapetimorpha communis Cr., n. comb.

- compactus (Mesostenus). 1873, p. 153 = Cryptanura compacta Cr., n. comb. The type of Cryptanura planiscutellata Cushman, 1945 has been compared with that of compactus and was found to represent the same species (new synonymy).
- concinna (Exochoides). 1868, p. 37 = Colpotrochia concinna Cr., n. comb.
- concolor (Ophion). 1865, p. 56 = Enicospilus concolor Cr.
- consimilis (Pimpla). 1865, p. 37 = Theronia consimilis Cr.
- copiosus (Mesostenus). 1873, p. 146 = Polycyrtus copiosus Cr.
- crassicauda (Pimpla). 1874, p. 399 = Scambus crassicauda Cr., n. comb.
- crassitarsus (Meniscus) 1874, p. 409 = Diradops crassitarsus Cr. n. comb.
- croceipes (Pimpla). 1874, p. 398 = Coccygomimus croceipes Cr., n. comb.
- croceiventris (Tryphon). 1868, p. 36 = Coccygomimus croceiventris Cr., n. comb.
- cubensis (Cryptus). 1865. p. 21 = Acroricnus cubensis Cr. cubensis (Pimpla). 1865, p. 35 = Ephialtes cubensis Cr., n. comb.
- cupidus (Ichneumon). 1873, p. 115 = near Hoplismenus. Cresson's name is preoccupied by Kawall, 1868. It was renamed Ichneumon cupido by Dalla Torre, 1902.
- curiatus (Ichneumon). 1873 p. 112 Amblytelini.
- decolorata (Glypta). 1874. p. 406 = Glypta decolorata Cr.
- decorata (Joppa). 1868, p. 32 = Joppa decorata Cr.
- decorosus (Ichneumon). 1868, p. 8 = Pseudamblyteles decorosus Cr., n. comb.
- decorosus (Mesoleptus). 1868, p. 35 = Perilissus decorosus Cr., n. comb.
- delecta (Cryptanura). 1873, p. 167 = Glodianus delectus Cr., n. comb.
- dilucidus (Ichneumon). 1873, p. 112 = Amblytelini.
- discus (Mesostenus). 1873, p. 153 = Lymeon discus Cr., n. comb.

- dissonus (Hoplismenus). 1868, p. 23 = Euraulus dissonus Cr., n. comb.
- divisus (Campoplex). 1874, p. 385 = Casinaria infesta Cr., n. syn.
- donabilis (Joppidium). 1873, p. 139 = Joppidium donabile Cr. dubiosum (Joppidium). 1873, p. 138 = Joppidium dubiosum Cr.
- durus (Ichneumon). 1873, p. 125 = Pseudamblyteles durus Cr., n. comb.
- ectypus (Mesostenus). 1873, p. 149 = Cryptanura ectypa Cr. egregia (Joppa?). 1868, p. 30 = Ortezia egregia Cr.
- elegans (Anomalon?). 1874, p. 379 = Spilanomalon elegans Cr.
- elegantula (Joppa). 1868, p. 32 = Joppa elegantula Cr.
- emaceratus (Mesoleptus). 1868, p. 35 = Lissonotini.
- encaustus (Ichneumon). 1868, p. 4 = Carinodes encaustus Cr., n. comb.
- epicus (Ichneumon). 1873, p. 121 Ditremops epica Cr., n. comb.
- esurialis (Hoplismenus). 1868, p. 25 = Drepanon esuriale Cr. n. comb.
- excuratus (Ichneumon). 1873, p. 119 = Tricholabus limitaris Cr., n. syn.
- exilis (Hemiteles). 1873, p. 171 = Mallochia exilis Cr., n. comb.
- exquisitus (Ichneumon). 1868, p. 12 = Aoplus exquisitus Cr., n. comb.
- facilis (Mesostenus). 1873, p. 153 = Lymeon facilis Cr., n. comb.
- famelicus (Ichneumon). 1868, p. 14 = Rhabdotus famelicus Cr., n. comb.
- fascipennis (Epimecis). 1865, p. 33 = Hymenoepimecis fascipennis Cr., n. comb.
- femoratus (Metopius). 1874, p. 393 = Metopius femoratus Cr. feralis (Pimpla). 1874, p. 399 = Coccygomimus punicipes Cr. ferox (Mesostenus). 1873, p. 143 = Polycyrtus ferox Cr.

- ferrugineus (Ophiopterus). 1874, p. 380 = Ophiopterus cincticornis Cr.
- ferruginosa (Epimecis). 1865, p. 33 = Hymenoepimecis ferruginosa Cr., n. comb.
- flavipennis (Campoplex). 1874, p. 383 = Campoplegidea flavipennis Cr., n. comb.
- flavovarius (Ichneumon). 1865, p. 14 = Pseudamblyteles flavovarius Cr., n. comb.
- frivolus (Ichneumon). 1868, p. 11 = Cyclolabus frivolus Cr., n. comb.
- fulvescens (Thyreodon). 1865, p. 46 = Athyreodon fulvescens Cr.
- fumipenne (Anomalon). 1874, p. 379 = Labrorychus fumipennis Cr., n. comb.
- fumipennis (Joppa). 1868, p. 32 = Joppa fumipennis Cr. furvus (Mesostenus). 1873, p. 147 = Polycyrtus furvus Cr.
- fuscatus (Trachynotus). 1865, p. 50 = Anomalon ejuncidum Say.
- gloriosa (Labena). 1874, p. 412 = Labena gloriosa Cr.
- gnarus (Campoplex). 1874, p. 384 = Campoplegidea gnara Cr., n. comb.
- gracilentus (Ichneumon). 1868, p. 16 = Rhabdotus gracilentissimus Dalla Torre, n. comb. Cresson's name is preoccupied by Wesmael, 1844 and was renamed Ichneumon gracilentissimus by Dalla Torre, 1902.
- gracilicornis (Oedicephalus). 1868, p. 28 = Oedicephalus gracilicornis Cr.
- gracilicornis (Phytodietus). 1874, p. 411 = Phytodietus bellus Cr., n. syn.
- grandis (Thyreodon). 1865, p. 45 = Thyreodon grandis Cr.
- ichneumoniformis (Pimpla). 1874, p. 403 = Coccygomimus ichneumoniformis Cr., n. comb.
- ignarus (Ichneumon). 1873, p. 121 Pteroconmus ignarus Cr., n. comb.
- imbecillis (Mesoleptus). 1868, p. 34 = Lymeon imbecillis Cr., n. comb.

inaequalipes (Campoplex). 1874, p. 386 = Cryptophion inaequalipes Cr., n. comb.

incerta (Joppa). 1873, p. 131 = Joppa incerta Cr.

incertus (Hemiteles). 1865, p. 22 = Christolimorpha subflavescens Cr., n. syn.

incertus (Mesostenus). 1873, p. 161 — Cryptanura incerta Cr. inclyta (Joppa). 1868, p. 29 — Macrojoppa inclyta Cr.

infulatus (Ichneumon). 1868, p. 12 = Microsage infulata Cr., n. comb.

ingenuus (Hemiteles). 1873, p. 172 = Lymeon ingenuus Cr., n. comb.

inoratus (Ichneumon). 1873, p. 120 = Thaumatoteles mendicus Cr., n. syn.

insolens (Limneria?). 1874, p. 386 = Charopsimorpha tibialis Cr.

insularis (Mesoleptus). 1865, p. 15 = Horogenes insularis Cr. intentus (Ichneumon). 1868, p. 15 = Rhabdotus intentus Cr., n. comb.

irritatus (Hemiteles). 1873, p. 171 = near Protocryptus?

izucarus (Ichneumon). 1873, p. 114 = Pseudamblyteles izucarus Cr., n. comb.

jucunda (Lampronota?). 1874, p. 409 = Mnioes jucundus Cr., n. comb.

jugiosus (Ichneumon). 1868, p. 9 = Pseudamblyteles centrosus Cr., n. syn.

junceus (Ichneumon). 1873, p. 116 = Coelichneumon junceus Cr., n. comb.

junceus (Mesostenus). 1873, p. 145 = Polycyrtus junceus Cr.

junctus (Hemiteles). 1873, p. 174 = Lymeon junctus Cr., n. comb.

lacivius (Campoplex). 1874, p. 383 = Campoplegidea lacivia Cr., n. comb.

lascivus (Hemiteles). 1873, p. 170 = Lymeon lascivus Cr., n. comb.

lassatus (Mesostenus). 1873, p. 157 = Lymeon lassatus Cr., n. comb.

laticinctus (Thyreodon). 1874, p. 376 = Thyreodon laticinctus Cr.

laticinctus (Tryphon?). 1868, p. 36 = near Blapticus.

latipennis (Trogus). 1873, p. 132 = near Trogus.

lectus (Campoplex). 1874, p. 384 = Campoplegidea lecta Cr. n. comb.

lectus (Ichneumon). 1868, p. 18 = Cressonianus lectus Cr.

legalis (Campoplex). 1874, p. 385 = Casinaria legalis Cr., n. comb.

lenis (Ichneumon). 1868, p. 20 = Lichmeres aztecus Cr., n. syn.

limatus (Hoplismenus). 1868, p. 24 = Narthecura limata Cr., n. comb.

limitaris (Ichneumon). 1868, p. 9 = Tricholabus limitaris Cr., n. comb.

longicornis (Oedicephalus). 1868, p. 27 = Oedicephalus longicornis Cr.

longula (Glypta). 1874, p. 405 = Glypta longula Cr.

macer (Mesostenus). 1873, p. 144 = Polycyrtus macer Cr.

maceratus (Campoplex). 1874, p. 385 = Casinaria macerata Cr., n. comb.

macilentus (Campoplex). 1874, p. 384 = Idechthis macilentus Cr., n. comb.

maculipennis (Thyreodon). 1874, p. 375 = Thyreodon maculipennis Cr.

maculipennis (Tryphon). 1874, p. 392 = Scolobates maculipennis Cr., n. comb.

magnum (Anomalon). 1874, p. 377 = Barylypa magna Cr., n. comb.

major (Mesostenus). 1873, p. 143 = Polycyrtus major Cr.

mancus (Mesostenus). 1873, p. 145 = Polycyrtus mancus Cr.

marginipennis (Pimpla). 1874, p. 401 = Coccygomimus marginipennis Cr., n. comb.

maritus (Ichneumon). 1868, p. 16 = Lobaegis marita Cr., n. comb.

- melleus (Mesoleptus). 1868, p. 34 = Perilissus melleus Cr., n. comb.
- melliventris (Campoplex). 1874, p. 383 = Campoplegidea lecta Cr., n. syn.
- mellosa (Theronia). 1874, p. 396 = Theronia mellosa Cr.
- mendicus (Ichneumon). 1873, p. 120 = Thaumatoteles mendicus Cr. n. comb.
- meridionalis (Ichneumon) 1865, p. 12 = Limonethe meridionalis Cr., n. comb.
- mexicana (Eiphosoma). 1874, p. 380 = Eiphosoma mexicanum Cr.
- mexicana (Epirhyssa). 1874, p. 394 = Epirhyssa mexicana Cr. mexicana (Exochoides). 1868, p. 37 = Colpotrochia mexicana Cr.
- mexicana (Grotea). 1874, p. 413 = Grotea mexicana Cr.
- mexicana (Lampronota). 1874, p. 407 = Lampronota mexicana Cr.
- mexicanum (Anomalon). 1874, p. 376 = Podogaster mexicana Cr., n. comb.
- mexicanus (Exetastes). 1874, p. 389 = Exetastes mexicanus Cr.
- mexicanus (Ichneumon). 1868, p. 2 = Neotropichneumon mexicanus Cr., n. comb.
- mexicanus (Meniscus). 1874, p. 410 = Diradops mexicana Cr., n. comb.
- mexicanus (Mesostenus). 1873, p. 157 = Cryptanura mexicana Cr.
- mexicanus (Ophion). 1874, p. 374 = Enicospilus americanus Christ.
- mexicanus (Phytodietus). 1874, p. 412 = Phytodietus mexicanus Cr.
- mexicanus (Pristomerus). 1874 ,p. 388 = Pristomerus (Pristomerus) mexicanus Cr.
- mexicanus (Tryphon). 1874, p. 391 = Chiloplatys mexicanus Cr., n. comb.
- minax (Hoplismenus). 1868, p. 23 = Notacma minax Cr., n. comb.

- mirabilis (Mesostenus). 1873, p. 165 = Christolia mirabilis Cr.
- mirandus (Mesostenus). 1873, p. 165 = Christolia miranda Cr.
- modicus (Mesostenus). 1873, p. 154 = Mesostenus modicus Cr.
- monilis (Hemiteles). 1873, p. 174 = Lymeon monilis Cr., n. comb.
- monitus (Ichneumon). 1868, p. 10 = Platylabus monitus Cr., n. comb.
- montezuma (Ichneumon). 1868, p. 13 = near Neotropichneumon.
- montezuma (Theronia). 1874, p. 395 = Theronia montezuma Cr.
- moratus (Mesostenus). 1873, p. 158 = Lymeon moratus Cr., n. comb.
- munitus (Hoplismenus). 1868, p. 21 = Narthecura munita Cr., n. comb.
- nafastus (Campoplex). 1874, p. 385 = Horogenes? nefastus Cr., n. comb.
- nestor (Ichneumon). 1868, p. 13 = Carinodes nestor Cr., n. comb.
- niger (Thyreodon). 1874, p. 375 = Thyreodon niger Cr.
- nigrocaeruleus (Ichneumon). 1873, p. 104 = Patroclus nigrocaeruleus Cr.
- nigrofemoratus (Ichneumon). 1873, p. 122 = Ditremops nigrofemorata Cr., n. comb.
- nigrovittata (Eiphosoma). 1865, p. 55 = Eiphosoma nigrovittatum Cr.
- novatus (Mesostenus). 1873, p. 159 = Lymeon novatus Cr., n. comb.
- nubecula (Mesostenus). 1873, p. 163 = Christolia nubecula Cr.
- nubecula (Pimpla). 1865 p. 196. A new name for Pimpla terminalis Cresson, which see .
- occiputalis (Hoplismenus). 1868, p. 24 = Drepanon occiputale Cr., n. comb.
- opaculus (Ichneumon). 1873, p. 115 = Pseudamblyteles opaculus Cr., n. comb.

- opimus (Campoplex). 1874, p. 382 Campoplegidea opima Cr., n. comb.
- orbitalis (Lampronota). 1874, p. 408 = Asphragis orbitalis Cr. n. comb.
- orbitalis (Meniscus?). 1874, p. 411 = Mnioes orbitalis Cr., n. comb.
- ornatipennis (Cryptus?). 1865, p. 24 = Nesolinoceras ornatipennis Cr., n. comb. Nesolinoceras espinis Ashmead, 1906 is the male of ornatipennis (new synonymy).
- ornatipennis (Thyreodon). 1874, p. 376 = Thyreodon ornatipennis Cr.
- otomitus (Hoplismenus). 1868, p. 21 = Amblytelini.
- pachymenae (Cryptanura?). 1873, p. 168 = Photocryptus pachymenae Cr.
- pallidus (Mesostenus). 1873, p. 148 = Polycyrtus pallidus Cr.
- parandus (Ichneumon). 1873, p. 124 = Pseudamblyteles parandus Cr., n. comb.
- parredes (Ichneumon). 1868, p. 4 = Amblytelini.
- passivus (Ichneumon). 1873, p. 113 = near Hoplismenus.
- patruelis (Hemiteles). 1873, p. 170 = Lymeon patruelis Cr., n. comb.
- paululus (Mesostenus). 1873, p. 145 = Polycyrtus paululus Cr. peritum (Anomalon). 1874, p. 377 = Labrorychus peritus Cr., p. comb.
- pertenuis (Mesostenus). 1873, p. 162 Mesostenus pertenuis Cr. picturatus (Hoplismenus). 1868, p. 22 Euraulus picturatus Cr., n. comb.
- placitus (Ichneumon). 1873, p. 121 = Pterocormus placitus Cr., n. comb.
- prolixus (Ichneumon). 1873, p. 118 = Coelichneumon prolixus Cr.
- propinquus (Hoplismenus). 1868, p. 22 = Narthecura propinqua Cr., n. comb.
- propinquus (Mesostenus). 1873, p. 152 = Cryptanura propinqua Cr.

- pulcherrima (Pimpla?). 1874, p. 404 = Odontopimpla pulcherrima Cr.
- pulchripennis (Cryptus). 1873, p. 137 = near Digonocryptus. pulchripes (Exochus). 1868, p. 38 = Exochus pulchripes Cr. punicipes (Pimpla). 1874, p. 398 = Coccygomimus punicipes
- rarus (Hemiteles) 1873, p. 171 = Lymeon rarus Cr., n. comb.
- reliquus (Mesostenus). 1873, p. 146 = Mesostenus reliquus Cr.
- residuum (Anomalon). 1874, p. 378 = Labrorychus residuus Cr., n. comb.
- rixosus (Hoplisymenus). 1868, p. 20 = Notacma rixosa Cr., n. comb.
- rufescens (Ephialtes). 1865, p. 38 = Ichneumon rufescens Cr., n. comb.
- rufoniger (Pimpla). 1865, p. 35 = Coccygomimus rufoniger Cr., n. comb.
- satageus (Phygadeuon). 1873, p. 140 = Aptesini?
- scelerosum (Anomalon). 1874, p. 378 = Barylypa scelerosa Cr., n. comb.
- scitulus (Hemiteles). 1873, p. 174 = Diapetimorpha scitula Cr., n. comb.
- scutatifrons (Metopius). 1874, p. 393 = Metopius scutatifrons Cr.
- scutellaris (Hoplismenus). 1868, p. 26 = Drepanon scutellare Cr., n. comb.
- semialbus (Mesostenus). 1865, p. 30 = Polycyrtus semialbus Cr.
- semisanguinea (Pimpla). 1874, p. 400 = Coccygomimus croceiventris Cr., n. syn.
- serricornis (Ichneumon). 1865, p. 13 = Tricholabus serricornis Cr., n. comb.
- servilis (Hemiteles) 1873, p. 176 = Diapetimorpha servilis Cr., n. comb.
- similans (Ichneumon). 1873, p. 128 = Notacma similans Cr., n. comb.

- solitarius (Ichneumon). 1873, p. 118 = Plagiotrypes solitarius Cr., n. comb.
- sororius (Oedicephalus). 1868, p. 28 = Oedicephalus sororius Cr.
- speciosa (Epirhyssa). 1865, p. 39 = Epirhyssa speciosa Cr.
- stupidus (Mesostenus). 1873, p. 159 = Polistiphaga stupida Cr.
- subflavescens (Hemiteles). 1865, p. 24 = Christolimorpha subflavescens Cr., n. comb. According to its description, Christolia ruficeps Cameron, 1906 is a synonym (new synonymy).
- subfuscus (Paniscus). 1865, p. 57 = Netelia (N.) subfuscus Cr. subspinosus (Ichneumon). 1868, p. 17 = Ditremops subspinosa Cr., n. comb.
- subtenuis (Mesostenus). 1865, p. 29 = Polycyrtus subtenuis Cr., n. comb.
- sulsus (Hemiteles). 1873, p. 175 = Lymeon sulsus Cr., n. comb. sumichrasti (Cryptanura). 1873, p. 168 = Glodianus sumichrasti Cr., n. comb.
- sumichrasti (Joppa). 1868, p. 31 = Joppa sumichrasti Cr.
- sumichrasti (Pimpla). 1874, p. 400 = Coccygomimus sumichrasti Cr., n. comb.
- tacubaya (Theronia). 1874, p. 397 = Theronia tacubaya Cr.
- tantillus (Cryptus). 1873, p. 134 = Lymeon tantillus Cr., n. comb.
- tarsalis (Exetastes). 1874, p. 389 = Exetastes tarsalis Cr.
- tarsatus (Mesostenus). 1865, p. 27 = Monogonocryptus tarsatus Cr., n. comb.
- tenebricus (Ichneumon). 1868, p. 15 = Lobaegis tenebrica Cr., n. comb.
- tenuicinctus (Stilpnus). 1868, p. 33 = Phaeogenes tenuicinctus Cr., n. comb.
- tenuicornis (Ichneumon). 1868, p. 9 = Platylabus tenuicornis Cr., n. comb.
- tenuiventris (Cryptus). 1873, p. 134 = near Digonocryptus.
- tepanecus (Campoplex). 1874, p. 382 = Campoplegidea tepaneca Cr., n. comb.

- tepanecus (Ichneumon). 1868, p. 5 = Carinodes tepanecus Cr., n. comb.
- teres (Ichneumon). 1868, p. 18 = Rhabdotus teres Cr., n. comb.
- terminalis (Campoplex flavipennis var.). 1874, p. 383 = Campoplegidea flavipennis Cr., n. syn.
- terminalis (Pimpla). 1865, p. 36 = Theronia nubecula Cr. Cresson's name terminalis is preoccupied by Brullé, 1846. It was renamed Pimpla nubecula by Cresson, 1865.
- thoracicus (Epimecis?). 1874, p. 395 = Polysphineta thoracica Cr., n. comb.
- thoracicus (Ophion) 1865, p. 55 = Enicospilus thoracicus Cr. tolteca (Theronia). 1874, p. 396 = Theronia tolteca Cr.
- toltecus (Ichneumon), 1868, p. 17 = Cressonianus toltecus Cr.
- toluca (Ichneumon). 1868, p. 6 = Tricholabus toluca Cr., n. comb.
- toros (Ichneumon). 1868, p. 14 = Carinodes toros Cr., n. comb. totonacus (Ichneumon). 1868, p. 10 = Amblytelini.
- totanacus (Mesochorus). 1872, p. 23 Mesochorus totanacus Cr.
- tragicus (Ichneumon). 1868, p. 11 = Microsage tragica Cr., n. comb.
- transilis (Hemiteles). 1873, p. 175 = Lymeon transilis Cr., n. comb.
- transversus (Cryptus). 1873, p. 136 = Cryptus arcuatus Cr. (near Digonocryptus), n. syn.
- tricarinatus (Exochus). 1868, p. 38 = Trieces platysoma Tow. Cresson's name tricarinatus is preoccupied in Trieces by Holmgren, 1856, and is accordingly here renamed Trieces platysoma.
- tricinctus (Trogus). 1865, p. 19 = Macrojoppa tricincta Cr., n. comb.
- tuxtula (Ichneumon). 1868, p. 17 = Lobaegis tuxtla Cr., n. comb.
- univittatus (Mesostenus). 1873, p. 148 = Polycyrtus univittatus Cr.

1.2

- validus (Exochus). 1865, p. 18 = Triclistus validus Cr., n. comb.
- vicinus (Ichneumon). 1873, p. 130 Oedicephalus frater Tow. Cresson's name vicinus is preoccupied by Cresson, 1864. The species is hereby renamed Oedicephalus frater.
- virescens (Ichneumon). 1873, p. 126 = Platylabus virescens Cr., n. comb.
- vittatipes (Exetastes). 1874, p. 389 = Exetastes vittatipes Cr. vitticolle (Anomalon). 1874, p. 377 = Podogaster vitticollis Cr., n. comb.
- vitticollis (Eiphosoma). 1865, p. 53 = Eiphosoma vitticolle Cr. zacatecus (Ichneumon). 1873, p. 116 = Carinodes zacatecus Cr., n. comb.
- zapoteca (Pimpla). 1874, p. 402 = Ephialtes zapoteca Cr., n. comb.
- zapotecus (Ichneumon). 1868, p. 3 = near Neotropichneumon.
- zapotecus (Mesostenus). 1873, p. 164 Christolia zapoteca Cr.
- zapotecus (Phygadeuon). 1873, p. 140 = Phygadeuon zapotecus Cr.
- zaptlanus (Ichneumon). 1873, p. 119 = Microsage zaptlana Cr., n. comb.
- zonata (Pimpla). 1874, p. 401 = Ichneumon zonatus Cr., n. comb.
- zonatus (Mesostenus). 1865, p. 28 = Messatoporus zonatus Cr., n. comb.

HOOKER

The types are in the Philadelphia Museum.

- angulatus (Eremotylus). 1912, p. 144 = Enicospilus angulatus Hooker, n. comb.
- cressoni (Enicospilus). 1912, p. 62 = Enicospilus cressoni Hooker.
- ferrugineus (Thyreodon). 1912, p. 121 = Thyreodon ferrugineus Hooker.

NORTON

The type is in the Philadelphia Museum.

cubensis (Ophion). 1863, p. 358 = Enicospilus cubensis Nort.

PROVANCHER

The types are in the Quebec Museum.

- elegans (Phytodietus). 1888, p. 431 = Polycyrtus elegans Prov., n. comb.
- ornatus (Phytodietus). 1888, p. 431 = Acerastes pertinax Cr., n. syn.
- superbus (Phytodietus). 1888, p. 430 = Polycyrtus superbus Prov., n. comb.

VIERECK

The type is in the Philadelphia Museum.

maculata (Psiloparia). 1920, p. 17 = Apechoneura maculata Vier.

GLODIANUS CAMERON 1402.

My concept of this genus includes Lamprocryptus Schmiedeknecht, 1904 and Trapezonalis Szépligeti, 1916 (new synonymies). As I limit it, the genus includes large slender Neotropic cryptines with short dense pubescence, the areolet elongate rectangular or trapezoidal, the ovipositor with a tapered sharp point, and the dorsal valve of the ovipositor with a subapical series of weak oblique grooves. Most of the species correspond to the type described as Lamprocryptus by Schmiedeknecht. Trapezonalis was distinguished by the stronger notaulus, and Glodianus by a short median horn on the frons, trans-striate propodeum, and weakness or absence of the apical propodeal carina. These differences do not seem of generic importance.

LYMEON AND DIAPETIMORPHA

As I limit it at present, Lymeon is a very large Neotropic genus whose species exhibit considerable structural variety. A few compact groups (Christolimorpha, Acerastes, Polistiphaga, Toechorychus, and Polycyrtidea) are separated from the protean mass and additional study will show other natural segregates. The names Zamastrus Viereck, 1913 and Neogoryphus Roman, 1936 probably belong in this complex, but without their genotypes I can not be certain.

In my catalogue of the Nearctic species (Townes, 1944 & 1945) I confused the genus *Diapetimorpha* with the present group and wish now to correct the error. *Diapetimorpha* and the *Lymeon* group of genera are separable as follows:

Base of first tergite with a triangular projecting point on each side opposite the attachment of the extensor muscle (strongest in the female); metapleural arcuate carina distinct at least at its anterior end, where it starts at the antero-ventral corner of the metapleurum; second and following tergites of female with fine dense pubescence.

Diapetimorpha.

Base of first tergite on each side with not even a trace of a lateral point; metapleural arcuate carina absent or only its anterior end present, this beginning a little posterior to the antero-ventral corner of the metapleurum; second and following tergites of female with pubescence of varying density, often very sparse.

Lymeon and related genera.

The Nearctic species belonging in Diapetimorpha are acadia, alabama, confederata, introita, and rufigaster. Cinctiventris and orbus are correctly placed in Lymeon.

TOECHORYCHUS, NEW GENUS

Genotype: Mesostenus abactus Cresson, 1873

Related to Polistiphaga (Cryptini) from which it is distin-

guished by the characters given below. This genus differs from most others of the Cryptini in the very short ovipositor which hardly surpasses the tip of the abdomen.

Median lobe of mesoscutum prominently elevated, without a distinct median longitudinal groove; propodeum without median longitudinal carinae basad of the basal transverse carina; apical carina of propodeum absent or represented by blunt transverse teeth; propodeum beyond the basal carina rugose, usually transversely rugose; portion of the first tergite beyond the spiracles about 1.3 as long as wide, always distinctly longer than wide (in *Polistiphaga* always wider than long); ovipositor tapered to a slender usually decurved point, extending very little beyond the apex of the abdomen; ovipositor sheath about 0.4 as long as the first tergite.

Includes (Mesostenus) Toechorychus abactus Cresson 1873, and five unidentified species in the Paris and Washington museums, all Neotropic. A short series of abactus in the Washington Museum was reared from Mischocyttarus indeterminabilis by J. Bequaert at Moca, Guatalon, Guatemala, at 1.000 meters altitude, March to April, 1931.

DREPANON, NEW GENUS

Genotype: Ichneumon occiputalis Cresson, 1868.

This and the following three genera (Narthecura, Notacma, and Ditremops) belong to a tropical group of Amblytelini characterized by a pair of spines on the propodeum, usually completely and sharply carinated propodeum, and usually rather flat abdomen with moderately small, weakly impressed gastrocoeli. The group has been termed the Hoplismenus group by Heinrich but I consider Benyllus much more typical of it than Hoplismenus. Besides the genera included by Heinrich, I should include Acanthojoppa, Plagiotrypes, Rhadinodontoplisus and others excluded by Heinrich on clypeal and mandibular characters.

The present genus differs from others of its group in the mandible, which is very long, slender, tapered and curved, quite sickle-like. Only the long slender upper tooth is visible when the mandibles are closed. The lower tooth is a strongly flattened blade directly behind the base of the upper tooth, the entire mandible being much like that of *Atopotrophos*. The genus may be further characterized as follows:

Clypeus in profile with its basal 0.3 convex, the rest flat or slightly concave; apical margin of clypeus thin, with a prominent rounded median lobe; labrum not exposed; outer edge of mandible grooved; occipital carina complete below, joining the hypostomal carina at the base of the mandible; scutellum medially with a tubercle or thorn-like spine that is usually more or less compressed; lateral carinae of scutellum usually distinct on about the basal 0.4 of the scutellum; propodeal spines long and slender.

Included are (Hoplismenus) Drepanon esuriale Cresson, 1868, (Hoplismenus) Drepanon occiputale Cresson, 1868, (Hoplismenus) Drepanon scutellare Cresson, 1868, and eight undetermined species in the Townes Collection, all Neotropic.

NARTHECURA, NEW GENUS

Genotype: Hoplismenus munitus Cresson, 1868.

This genus belongs in the group of genera discussed under *Drepanon* (above). *Narthecura* differs from all other Neotropic Amblytelini in having the ovipositor of many of its species projecting considerably beyond the apex of the abdomen, in some by as much as 0.8 the length of the first tergite. In some species, however, the ovipositor projects very little. The mandible is rather similar to that of *Lichmeres* and of *Rhabdotus*.

Apical margin of clypeus truncate but with a thin median apical lobe; labrum trilobed with the median lobe larger than the lateral lobes and with it alone projecting beyond the clypeus; mandible as seen from the outside evenly tapered from its broad base to the narrow apex of the upper tooth, the lower tooth small, short, blunt, and turned strongly inward so that from the outside it is inconspicuous; malar space about equal to the basal width of the mandible; clypeal

foveae large and deep; occipital carina complete below, joining the hypostomal carina shortly before the base of the mandible; subapical part of female flagellum moderately to conspicuously broadened and flattened below; scutellum in profile moderately convex and elevated, margined to its apex with lateral carinae, rarely with a blunt median longitudinal ridge; areola and petiolar area confluent; second and third lateral areas confluent; ovipositor sheath about 0.5 to 1.0 as long as the first tergite, usually polished and sparsely setose.

Included are (Hoplismenus) Narthecura limata Cresson, 1868, (Hoplismenus) Narthecura munita Cresson, 1868, (Hoplismenus) Narthecura propinqua Cresson, 1868, and ten undetermined species in the Townes Collection, all Neotropic.

NOTACMA, NEW GENUS

Genotype: Hoplismenus acclivus Cresson, 1868.

This genus belongs in the group of genera discussed under *Drepanon* (above). It is distinguished by its narrow unspecialized mandible and its scutellum with lateral carinae and a more or less well developed median tubercle. It is very close to *Benyllus* and *Evirchoma*, from which it differs in the tubercle or spine on the scutellum; and to *Ditremops*, from which it differs in the lateral carinae and tubercle on the scutellum, the usually longer malar space and longer propodeal spines, and the lack of a well developed median longitudinal carina in the areola.

· Apical margin of clypeus sharp, broadly and squarely truncate but sometimes with a small median lobe; clypeal foveae large and deep; apical margin of labrum broadly rounded, not quite covered by the clypeus; mandible of normal size and shape (about as in *Pterocormus*), not unusually broad or narrow, its lower tooth of moderate size, strong, and not turned inward, shorter than the upper tooth; malar space 0.9 to 1.3 as long as the basal width of the mandible; occipital carina joining the hypostomal carina at about the mandible's basal width from its lower end; scutellum with lateral carinae on its basal 0.3 to 0.9, with a median erect tubercle which varies from

very high to very low and inconspicuous; areola separated from the petiolar area, without or sometimes with a short inconspicuous median longitudinal carina; propodeal spines long and slender.

Included are (Ichneumon) Notacma abacta Cresson, 1873, (Hoplismenus) Notacma accliva Cresson, 1868, (Hoplismenus) Notacma minax Cresson, 1868, (Hoplismenus) Notacma rixosa Cresson, 1868, (Ichneumon) Notacma simulans Cresson, 1873, and thirteen undetermined species in the Townes Collection, all Neotropic.

DITREMOPS, NEW GENUS

Genotype: Ichneumon abjectus Cresson, 1873.

Quite similar to *Notacma* (above) from which it differs as follows: scutellum in profile evenly rounded, without lateral carinae; areola divided by a median longitudinal carina; malar space 0.3 to 0.8 the basal width of the mandible; clypeus without a median apical lobe; propodeal spines shorter and stouter.

Included are (Ichneumon) Ditremops abjecta Cresson, 1873, (Ichneumon) Ditremops actuosa Cresson, 1873, (Ichneumon) Ditremops epica Cresson, 1873, (Ichneumon) Ditremops nigrofemorata Cresson, 1873, (Ichneumon) Ditremops subspinosa Cresson, 1868, and six undetermined species in the Townes Collection, all Neotropic.

LICHMERES, NEW GENUS

Genotype: Ichneumon aztecus Cresson, 1868.

In general sculpture and appearance this genus is rather similar to *Microsage*, from which it is easily distinguished by the narrower mandible and the occipital carina complete below. The genus is rather unusual in its strongly projecting scutellum with a bilobed apex. The mandible is somewhat similar to that of *Narthecura* and of *Rhabdotus*.

Head rather large, with broad cheeks; apical margin of clypeus weakly concave; mandible, as seen from outside, evenly

tapered from its broad base to the narrow apex of the upper tooth, the lower tooth short, blunt, and turned strongly inward so that from the outside it is inconspicuous; malar space about equal to the basal width of the mandible; occipital carina complete below, joined by the hypostomal carina at a very acute angle shortly before the base of the mandible; female flagellum rather slender, subapically dilated and flattened below, its broader segments about 1.4 as wide as long; thorax and abdomen with dense rather coarse punctures; scutellum strongly elevated, not margined laterally, as seen from above trapezoidal with the apical part somewhat bilobed, and as seen from the side triangularly projecting with the apex somewhat overhanging; areolet narrowly sessile above; propodeum in profile rather evenly convex but with stout dorso-lateral spines that are about as long as the median diameter of the hind tibia; propodeum much as in Hoplismenus but a little longer, its carinae somewhat obscured by punctation; areola about 1.5 as long as wide; abdomen somewhat constricted at the incisions, its tergites with even, coarse, close punctures except on the basal 0.4 of the first tergite; gastrocoeli short, moderately impressed, separated from each other by 1.7 their width; female abdomen oxypygous.

The only species known to me is the Neotropic (*Ichneumon*) Lichmeres aztecus Cresson, 1868.

EURAULUS, NEW GENUS

Genotype: Hoplismenus picturatus Cresson, 1868.

This genus is generally similar to *Cressonianus* and to *Hoplismenus* but it is distinguished from both by the very broad gastrocoeli and by the broader apical part of the female flagellum.

Clypeus flat in its median apical part, its apex rather broadly truncate exposing the apical part of the labrum; apical margin of labrum evenly convex; mandible with its lower edge somewhat lamellate and projecting, making its outer face slightly concave; mandible rather broad basally and narrow apically, its lower tooth small; temples short and sloping, in lateral view

about 0.4 as long as the eye; occipital carina strong, reaching the hypostomal carina shortly before the base of the mandible; subapical part of female flagellum broadened and flattened below, the wider segments about 2.5 as wide as long; scutellum in profile weakly convex and only moderately elevated, with lateral carinae on its basal 0.7; tarsal claws apparently not pectinate; propodeum about as in *Hoplismenus*, but the spines somewhat longer, about 1.5 as long as broad at the base; postpetiole in profile conspicuously elevated just in front of the spiracle; gastrocoelus broad, rather long, and deep, almost reaching the lateral margin of its tergite and separated from the other gastrocoelus by about 0.33 its width.

The species included are (Hoplismenus) Euraulus dissonus Cresson, 1868, and (Hoplismenus) Euraulus picturatus Cresson, 1868. There is also an undetermined species from southern Brazil in the Townes Collection.

LOBAEGIS, NEW GENUS

Genotype: Ichneumon maritus Cresson, 1868.

This genus belongs in the Amblytelini and has the following unusual characters: Mandible with a small blunt black tooth on its inner upper edge, in addition to the usual two apical teeth; apical margin of clypeus with a median rounded projection so that it appears weakly trilobed; propodeum with short dorso-lateral spines. The extra tooth on the mandible is not easily visible when the mandibles are closed.

General form of the body about as in *Pterocormus*, but the female only a little stouter than the male; clypeus broad, in profile its basal 0.3 convex, the rest flat or somewhat concave; apical margin of clypeus thin, roundly produced medially so that it appears weakly trilobed; labrum not exposed; mandible, except for the small third tooth mentioned above, of normal form, about as in *Pterocormus*; occipital carina complete below, joining the hypostomal carina at the base of the mandible; apical part of female flagellum somewhat broadened and conspicuously flattened below, its broader segments

about 2.0 as wide as long; scutellum with lateral carinae on its basal 0.3 to 0.6, in profile moderately elevated and weakly convex above; areolet narrowly sessile above; propodeum with distinct dorsal and posterior faces, the latter shorter than the dorsal face; carination of propodeum practically complete but not strong, presenting no unusual features; propodeum with a pair of dorso-lateral spines, usually short; apical half of first tergite in profile rather evenly convex above; postpetiole without a well-marked median area; gast-rocoeli of moderate size and moderately impressed; second and following tergites moderately convex; female abdomen oxypygous.

Included are the Neotropic (Ichneumon) Lobaegis arista Cresson, 1868, (Ichneumon) Lobaegis marita Cresson, 1868, (Ichneumon) Lobaegis tenebrica Cresson, 1868, (Ichneumon) Lobaegis tuxtla Cresson, 1868, and six undetermined species in the Townes Collection, all Neotropic except one from the eastern United States.

RHABDOTUS, NEW GENUS

Genotype: Ichneumon intentus Cresson, 1868.

This genus belongs to the Amblytelini. Its most distinctive characters are in the occipital carina which is incomplete below, in the lower tooth of the mandible which is turned strongly inward, and in the rather elongate propodeum.

Apical margin of clypeus truncate but with a median subtriangular lobe; labrum concealed; occipital carina incomplete below, not extending beyond the lower margin of eye; malar space about 0.8 the basal width of the mandible; mandible moderately large, in external view tapered from the base to the rather stout upper tooth, the lower tooth also stout but shorter than the upper tooth and appressed to it and strongly incurved so as to be conspicuous only when the mandible is viewed from below; subapical part of female flagellum moderately expanded and flattened below, the broader segments about 2.2 as wide as long; scutellum in profile evenly convex, not conspicuously elevated, with blunt

lateral carinae only at its basal corners; areolet pentagonal, broadly sessile above; propodeum elongate, its dorsal face about 1.3 as long as its posterior face, with a pair of short, blunt, but very distinct dorso-lateral teeth or spines; propodeal carinae moderately sharp and approximately complete; abdomen rather long and narrow, oxypygous; apical 0.7 of first tergite in profile evenly and rather weakly convex; postpetiole rather narrow, with rather coarse punctures except on the central 0.3 which is polished and impunctate; second tergite about 1.5 as long as wide, coarsely punctate, its gastrocoeli of moderate size and rather strongly impressed, separated from each other by about 1.3 their width.

The species included are (Ichneumon) Rhabdotus famelicus Cresson, 1868, (Ichneumon) Rhabdotus gracilentissimus Dalla Torre, 1902, (Ichneumon) Rhabdotus intentus Cresson, 1868, (Ichneumon) Rhabdotus teres Cresson, 1868, and an undetermined species from Ecuador in the Townes Collection, all Neotropic.

LIMONETHE, NEW GENUS

Genotype: (Ichneumon insolens Cresson, 1867) = Joppa maurator Brullé, 1846.

In general structure this genus is similar to *Pseudocillimus* and to *Trogomorpha*, agreeing most closely with the latter. It may be distinguished from most genera with which it might be confused by the form of the areolet, which is very wide above, the upper side as long as or almost as long as the outer side. Also, the second recurrent vein joins the cubitus only slightly basad of the second intercubitus, rather than near the middle or base of the areolet. The areolet of *Trogomorpha* approaches that of *Limonethe* but is somewhat narrower above and receives the second recurrent vein a little farther basad of the second intercubitus.

Head normal (approximately as in *Pterocormus*); apical margin of clypeus rather broadly truncate, blunt, exposing the apical part of the labrum; mandible moderately slender, not twisted or unusual in form, its lower tooth small and inconspicuous; flagellum of female with a white median band,

beyond which it is broadened and strongly flattened below, its apical part moderately attenuate; thorax coarsely punctate; scutellum gently convex, not margined laterally; propodeum and its carinae not unusual, very similar to those of Trogomorpha but the propodeum a little more elongate; propodeal spiracle about 4 times as long as wide; abdomen rather slender; postpetiole about as long as wide, coarsely punctate, with a weakly raised median area; second and third tergites narrow, strongly convex and coarsely punctate; second tergite about 1.5 as long as wide, the gastrocoeli small and deep, separated from each other by twice their width, and each from the lateral margin of the tergite by about 1.2 its width; third and following tergites strongly convex; ovipositor moderately short so that the abdomen is somewhat amblypygous. The two species known to me have the wings, bead, and thorax black and the abdomen red.

The species included are the Nearctic (Joppa) Limonethe maurator Brullé, 1846 and the Neotropic (Ichneumon) Limonethe meridionalis Cresson, 1865.

EUGYRUS, NEW GENUS

Genotype: Ichneumon alvarado Cresson, 1868.

This genus belongs to the *Apatetor* group of genera (Amblytelini) as defined by Heinrich (1938, Mém. Acad. Malagache 25:54) and carries to an extreme the tendency in that group for the propodeum to be evenly rounded in profile and to have the lower boundary of its second lateral area obliterated. It is rather near *Ileanta* but differs in propodeal carination.

Clypeus apically truncate with a median small weak angular projection; labrum not exposed; malar space about 0.7 the basal width of the mandible; thorax in profile evenly convex from the middle of the mesoscutum to the apex of the propodeum, except for a slight flattening centered near the apex of the scutellum; scutellum broad, almost flat, not at all margined laterally; areolet pentagonal, its upper side narrow; propodeum in profile evenly convex; median longitudinal

carinae of propodeum straight and parallel, separated by about 0.25 the width of the propodeum, the carinae obsolescent at the base of the propodeum; areola and petiolar area completely confluent; second and third lateral areas confluent, externally with an indication of a separation; first tergite rather stout, its apical 0.7 evenly convex in profile; median dorsal carinae of first tergite long and strong, the part of the postpetiole between them striate and the parts laterad with coarse punctures; second and following tergites moderately broad, rather strongly convex and with coarse punctures, all but the apical tergites with a median striate area; gastrocoeli short and deep, separated from each other by about 1.2 to 1.7 their width, and each from the lateral margin of the tergite by about 0.8 to 1.2 its width. Female unknown.

Included are (Ichneumon) Eugyrus alvarado Cresson, 1868 and several undetermined species in the Townes Collection and in the Washington Museum, all Neotropic.

MNIOES, NEW GENUS

Genotype: Lampronota? jucunda Cresson, 1874.

This genus is related and similar to Pimplopterus, Lampronota, Lissonota, and Asphragis but is distinguished as follows: Areolet absent, the intercubitus long and reclivous; nervulus strongly reclivous, postfurcal by 0.2 to 0.5 its length; head, thorax, abdomen, and legs covered with very dense short pubescence; head, thorax, abdomen, coxae, and femora quite mat and with fine close punctures, the punctures often quite weak; tarsal claws pectinate on their basal 0.4 to 0.7; ovipositor about 1.2 to 1.5 as long as the abdomen; fore wing about 6 to 12 mm. long.

The species included are the Neotropic (Lampronota?) Mnioes jucundus Cresson, 1874 and (Meniscus?) Mnioes orbitalis Cresson, 1874. In the Townes Collection are five additional undetermined Neotropic species and one from the southeastern United States.

DIRADOPS, NEW GENUS

Genotype: Meniscus bethunei Cresson, 1869.

This genus has the general appearance of *Exetastes*, from which it differs in having a conspicuous median longitudinal tubercle-like ridge on the face, the nervellus broken near or slightly below the middle, areolet absent, and only the apical fourth of the abdomen more or less compressed. Additional characters are as follows: Fore wing about 6 to 13 mm. long; apical margin of clypeus thick, evenly convex or with a pair of weak apical tubercles; second recurrent vein about 1.2 to 1.4 as long as the distance between the radial and cubital veins at the level of the second recurrent vein; claws strongly pectinate; tarsi in some species broad and flat; abdomen mat or polished impunctate, or the basal tergites with a few scattered punctures; ovipositor short, heavy, and compressed, its point sharp; ovipositor sheath about 0.8 to 1.2 as long as the first tergite.

Even though this genus has the general appearance of Exetastes, I place it in the Lissonotini rather than in the Banchini because the nervellus is not broken far above the middle and the abdomen is not as compressed as in most Banchini. It contains the Nearctic (Meniscus) Diradops bethunei Cresson, 1869 and the Neotropic (Meniscus) Diradops alternata Cresson 1874, (Meniscus) Diradops crassitarsus Cresson, 1874, and (Meniscus) Diradops mexicana Cresson, 1874. There are also ten additional undetermined species in the Townes Collection and several others in the Washington Museum, all Neotropic.

LEURUS, NEW GENUS

Genotype: Exochus caeruliventris Cresson, 1868.

This genus is related and in general appearance is similar to *Exochus*, but is distinguishable from *Exochus* and like genera by the following characters: Mandible broad, with an apical 45° truncation, the upper tooth prominent, the lower tooth at the base of the upper tooth and very small, situated at about the middle of the width of the mandible; labrum not

exposed; face with rather large shallow punctures, in profile evenly convex; frons without a carina between the antennal sockets; back of head sloping obliquely from the posterior ocelli to the level of the occipital carina, thence vertically to the foramen magnum; areolet present; first intercubitus decidely longer than the section of the cubital vein between the first intercubital and second recurrent veins; spurs of middle tibia of equal length; hind coxa with a prominent postero-basal shoulder; epipleurum of second tergite narrow and inconspicuous; epipleurum of third tergite about 0.33 as wide as the tergite.

In the Townes Collection are two very distinct, unnamed, Nearctic species of this genus and several Neotropic forms that appear to be races of (*Exochus*) Leurus caeruliventris Cresson, 1868.

TRIECES, NEW GENUS

Genotype: Exochus texanus Cresson, 1872.

Very similar to *Chorinaeus* and combined with it by previous authors, *Trieces* may be separated by the following couplet.

Third tergite with a median and a pair of sublateral longitudinal carinae, the sublateral ones extending a third or more the length of the tergite; second tergite with a median and a pair of sublateral carinae extending its entire length; mesopleural suture absent; upper part of pronotum without or with a very faint submarginal groove; thorax with a very stream-lined appearance.

Trieces.

Third tergite with only a median longitudinal carina or rarely with sublateral carinae at its base; second tergite with a median carina extending its entire length and with sublateral carinae distinct usually on only its basal third; mesopleural suture present; upper part of pronotum with a distinct submarginal groove; thorax with a less stream-lined appearance. Chorinaeus.

The species included are the Neotropic Trieces platysoma (new name for Exochus tricarinatus Cresson, 1868), the Nearctic (Chorinaeus) Trieces costatus Davis, 1897, (Chorinaeus) Trieces flavifrons Ashmead, 1890, (Chorinaeus) Trieces marlatti Ashmead, 1896, (Chorinaeus) Trieces onitis Davis, 1897, (Exochus) Trieces texanus Cresson, 1872; and the Palaearctic (Chorinaeus) Trieces facialis Thomson, 1887, (Chorinaeus) Trieces nitidifrons Thomson, 1887, (Chorinaeus) Trieces thuringiacus Schmiedeknecht, 1925, and (Chorinaeus) Trieces tricarinatus Holmgren, 1856. Chorinaeus flavifrons Schmiedeknecht, 1925 also belongs here. Since Schmiedeknecht's name is preoccupied by Ashmead, 1896, his species is here renamed Trieces xanthopsis. I know the Palaearctic species only by their descriptions. CHAROPS AND CASINARIA - avalidem ...

In 1945 (Mem. Amer. Ent. Soc. 11:607), I synonymized Casinaria with Charops, because they seemed inseparable on the characters known to me then. More recent study has brought to light other characters by which the species involved may be separated into two large natural groups corresponding roughly with Charops and Casinaria of previous authors, and the occurrence of Mexican species in this complex makes it desirable to review the situation here. Accordingly, I propose to redivide these two genera according to the following key:

Central 0.3 or more of mesopleural suture not impressed. indicated only by the raised mesepimeron and by transverse rugae; extreme basal part of petiole with sternite occupying its entire depth, so that in side view its lateral suture runs along the upper margin of the petiole: areolet absent (except in an Oriental species group); outer lower angle of second discoidal cell a right angle (slightly acute in an Oriental species group); propodeal spiracle more than 2.0 as long as wide; squama of male genitalia usually rod-like apically. Charops.

Central 0.3 of mesopleural suture impressed as a sharp shallow groove; extreme basal part of petiole with sternite not occupying quite its entire depth, so that in side view its lateral suture is a little below the upper edge of the petiole; areolet present; outer lower angle of second discoidal cell acute (rarely a right angle); propodeal spiracle less than 2.0 as long as wide (except in texana and related species); squama of male genitalia not rod-like apically.

Casinaria.

By this división Charops has Zacharops as a synonym and Casinaria has Amorphota, Campotrephus, Alcima, Anempheres, Trophocampa, Fiebrigia, Neonortonia, Zastenomorpha, and Zastenogastra as synonyms. Of the described Nearctic species recorded in my catalogue, annulipes belongs in Charops and ambigua, scabriformis, genuina, infesta, lamina, limenitidis, semiothisae, and texana belong in Casinaria. (Charops) Casinaria ambigua Townes, 1945, (Zastenomorpha) Casinaria lamina Viereck, 1921 and (Campoplex) Casinaria texana Ashmead, 1890, are new combinations. It should be noted that Casinaria scabriformis was first published in August, 1912 and Casinaria eupitheciae first in December, 1912 making eupitheciae a synonym of scabriformis rather than vice versa. I am indebted to Mr. G. S. Walley (in litt.) for pointing out these dates to me and for showing the distinction between his semiothisae and Viereck's scabriformis which I had previously considered the same species.

BARYLYPA T-ocritar

In 1945 (Mem. Amer. Ent. Soc. 11:713), I considered Barylypa to be a synonym of Erigorgus. A recent restudy of the group shows that the concept of Erigorgus adopted there includes several groups that should be made separate genera. Because Mexican species are involved, I shall indicate here that Barylypa should be separated from Erigorgus and may be distinguished from Erigorgus in the strict sense by its postnervulus broken far above the middle, by its long slender antenna, and by its tarsal claws which are shorter and more

strongly curved than in *Erigorgus*. Except for the lack of a carina on the underside of the front coxa, *Barylypa* is superficially rather similar to *Labrorychus*.

The described Nearctic species of Barylypa are (Anomalon) Barylypa elongata Davis, 1898, (Anomalon) Barylypa paene-ferruginea Viereck, 1905, (Anomalon) Barylypa smithii Davis, 1898, and (Podogaster) Barylypa sulcata Provancher, 1886. These are all new combinations.

BIBLIOGRAPHY OF THE PAPERS CITED

- Cresson, 1865. On the Hymenoptera of Cuba. Proc. Ent. Soc. Philadelphia. 4:1-200.
- Cresson, 1868. Catalogue of a collection of Hymenoptera made by Prof. F. Sumichrast near Cordova, Mexico. Trans. Amer. Ent. Soc. 2:1-38.
- Cresson, 1872. Descriptions of new North American Hymenoptera I. Canad. Ent. 4:21-24.
- Cresson, 1873. Descriptions of Mexican Ichneumonidae (Part I). Proc. Acad. Nat. Sci. Philadelphia. 25:104-176.
- Cresson, 1874. Descriptions of Mexican Ichneumonidae (Part 2). Proc. Acad. Nat. Sci. Philadelphia. 25:374-413.
- Dalla Torre, 1901 & 1902. Catalogus Hymenopterorum. Vol. 3. 1141 pages.
- Hooker, 1912. The ichneumon flies of America belonging to the tribe Ophionini. Trans. Amer. Ent. Soc. 38: 1-176.
- Norton, 1863. Catalogue of our species of Ophion, Anomalon, Paniscus, and Campoplex. Proc. Ent. Soc. Philadelphia. 1:357-368.
- Provancher, 1885-1889. Additions et corrections au volume II de la faune entomologique du Canada, traitant des Hyménoptéres. 475 pages.
- Townes, 1944 & 1945. A catalogue and reclassification of the Nearctic Ichneumonidae. Mem. Amer. Ent. Soc. 11, 925 pages.
- Viereck, 1920. Labenidae, a new family in the Ichneumonoidea (Hymen.) Ent. News 31:16-19.

